

ELECTRONICS FACILITIES IN CUBA

ANNEX 1B

CARRIER FACILITIES AND TOLL CIRCUITS OF THE CUBAN TELEPHONE COMPANY

CIA/RR EP 60-73-S1B

November 1960

C E N T R A L I N T E L L I G E N C E A G E N C Y

O F F I C E O F R E S E A R C H A N D R E P O R T S

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Carrier Facilities as of 4 October 1960

Toll Circuit Layout (1957-60 Construction
Program)

Aguila, Guanabo, Mantanzas, and Santa Clara	1 of 7
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For a diagram of the basic network, see Figure 1 of CIA/RR EP 60-73

CARRIER TERMINALS				CARRIER REPEATERS		MISCELLANEOUS		EDICION: 5-21-57
SYMBOL	MFR	LINE FREQ. KILOCYCLES	TYPE	SYMBOL	MEANING	SYMBOL	DESCRIPTION	
[FM]	PANHANDLE	50-335	STACKARUS UP TO TEN SINGLE CHANNELS.	[diamond]	FTR 9FI SINGLE CHANNEL	[circle]	L.D. TELEPHONE	
[]	FTR	3.5-10	9AI SINGLE CHANNEL	[circle with dot]	WE. "C" 3 CHANNELS	[circle with dot dot]	PARTY LINE	
[L]	FTR	3.6-12.4	9H2-1 " " "	[circle with dot]	FTR 9BI 3 CHANNELS	[dash-dot-dot]	CUT IN STATION	
[L]	FTR	13.6-22.9	9H2-2 " " "	[circle with dot]	LENKURT 32E 3 CHANNELS	[dash-dot-dot-dot]	PHYSICAL EQUIPPED WITH 75, 76, 77 OR 93A COIL	
[diamond]	FTR	13.6-21.1	9FI " " "	[crossed rectangles]	CTC 50J 12 CHANNELS	[dash-dot-dot-dot-dot]	PHANTOM GROUP 4W 75, 76 OR 93 COILS ON SIDE CIRCUIT NO COIL ON PHANTOM CIRCUIT	
[circle]	WE.	4.15-10.15		[crossed rectangles]	LENKURT 45A 12 CHANNELS	[dash-dot-dot-dot-dot-dot]	PHANTOM GROUP 4W 75, 76 OR 93 COILS ON SIDE CIRCUIT 93B OR 92B COIL ON PHANTOM	
[F]	FTR	6-30	9BI 3 CHANNEL	[crossed rectangles]	LENKURT 45BN 24 CHANNELS	[dash-dot-dot-dot-dot-dot-dot]	TBA REP COIL	
[W]	WE.	6-30	"C" 3 CHANNEL	[crossed rectangles]	WE. 0B 4 CHANNELS	[dash-dot-dot-dot-dot-dot-dot-dot]	VOICE REPEATER HYBRID TYPE SERIES 0B2 HYBRID TYPE	
[L]	LENKURT	6-30	32E 3 CHANNEL	[crossed rectangles]	LENKURT 45CB 4 CHANNELS	[dash-dot-dot-dot-dot-dot-dot-dot-dot]	PROGRAM AMPLIFIER	
[L]	LENKURT	3.3-35	32E 4 CHANNEL	[crossed rectangles]	LENKURT 45CC 4 CHANNELS	[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot]	COMPOSITE SET ON SIDE XCT	
[]	STC	3G-140	50J 12 CHANNELS	LINE FILTERS		[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot-dot]	SUGAR MILL	
[L]	LENKURT	40-150	65A 12 CHANNEL THREE GROUPS OF FOUR CHANNELS	[square]	PANHANDLE LINE FILTER	[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot-dot]	RADIO LINK.	
[]	LENKURT	40-264	45BN 24 CHANNELS IN SIX GROUPS OF FOUR CHANNELS	[square]	3KC FILTER	[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot-dot]	OUTGOING DIAL TRUNK	
[L]	LENKURT	40-150	65A 12 CHANNEL BASE GROUP EQUIPMENT	[square]	4 KC 902A FILTER	[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot-dot]		
[]	LENKURT	40-264	45BN 24 CHANNEL BASE GROUP EQUIPMENT	[square]	WE 12J 5KC FILTER	[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot-dot]		
[]				[square]	STC 50J HF FILTER	[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot-dot]		
[]				[square]	LENKURT HF FILTER ALSO TYPE 0 FILTER	[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot-dot]		
[]	WE	40-76	WE 0B 4 CHANNEL	[square]	BROAD FILTER.	[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot-dot]		
[]	LENKURT	40-76	45CB 4 CHANNEL	[square]	10 KC FILTER (FTR 904A)	[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot-dot]		
[]	LENKURT	80-116	45CC 4 CHANNEL	[square]	OB/45 CB. LINE FILTER	[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot-dot]		
[]				[square]	45 CC. LINE FILTER.	[dash-dot-dot-dot-dot-dot-dot-dot-dot-dot-dot]		
[triangle]	LENKURT	THE SYMBOL INDICATES THAT THE FREQUENCY IS LESS THAN OR EQUAL TO THE FREQUENCY WHEN ASSOCIATED WITH 45 TYPE EQUIPMENT.						
[triangle]			UF TELEGRAPH TERMINAL NUMERAL INDICATES NO. CHANNELS					
CUBAN TELEPHONE COMPANY DEPARTAMENTO DE INGENIERIA								
TOLL CIRCUIT LAYOUT MAPS SYMBOLS								
<i>John Mullen</i>				PROYECTO: T-200 DIBUJADO: <i>John Mullen</i> FECHA: 3-21-57				
<i>Pete Martinez</i>				REVISADO: <i>Pete Martinez</i> FECHA: 3-21-57				
				310,022				

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 CARRIER FACILITIES AS OF OCTOBER 4, 1960

FROM CENTRAL OFFICE	TO CENTRAL OFFICE	ONE CHANNEL CARRIER		THREE CHANNEL CARRIER		FOUR CHANNEL CARRIER		SEVEN CHANNEL CARRIER		TWELVE CHANNEL CARRIER		
		TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	
1) HAVANA	CARDENAS			MIX & GEN. Z5N	3					MIX & GEN. Z12 F	6	
2) "	HOLGUIN			" " "	3					" " "	4	
3) "	CAMAGUEY			R.E.P. "C"	3					" " "	4	
4) "	SAGUARO GRANDE			R.E.P. "C"	3					" " "	12	
5) "	IEGO AVILA			R.E.P. "C"	3					" " "	10	
6) "	SANTA CLARA									" " "	9	
7) "	STGO. CUBA											
8) "	VARADERO											
9) "	CARDENAS											
10) "	V. TUNAS			FTR- 981	3							
11) "	STO. VEGAS			R.E.P. "C"	3							
12) HAVANA	KEY WEST									MIX-GEN. Z12N	48	
13) COTONERO	CAMAGUEY			FTR- 981	3					" L "	24	
"	CIENFUEGOS			" "	3							
"	SANTA CLARA			" "	6							
"	VARADERO			" "	3							
"	STGO. DE CUBA			" "	1							
14) STO VEGAS	PINAR DEL RIO									" J "	12	
15) PINAR DEL RIO	ARTEMISA	FM PANHD.	2	-	-							
16) " "	STGO VEGAS	-	-	FTR 981	3							
17) " "	SAN LOUIS (PR)	LYNCH B28	1									
18) " "	S.J. MARTINEZ	LYNCH B28	1									
19) CAMAGUEY	CIEGO AVILA	W.ELECTRIC H-1	1							MIX & GEN Z12 F	1	
"	" "	FTR 9H2	1									
20) "	STA. LUCIA	W.ELECTRIC H-1	1									
21) "	ESMERALDA	FTR 9H1	1									
"	" "	FTR 9H2	1									
22) "	STA. CRUZ	FTR 9H1	1									
"	" "	FTR 9H2	1									
23) "	FLORIDA	FM PANHD.	10									
24) "	NUEVITAS	FM PANHD.	6									
25) "	STA. CLARA	-	-									
26) STGO. CUBA	BAYAMO	W.ELECTRIC H-1	1									
27) " "	GUANTANAMO	FTR 9F1	1	FTR 981	3					MIX & GEN Z12 F	8	
"	"	FTR 9A1	1									
28) MAYARI		FTR 9F1	1									

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FROM CENTRAL OFFICE	TO CENTRAL OFFICE	ONE CHANNEL CARRIER		THREE CHANNEL CARRIER		FOUR CHANNEL CARRIER		SEVEN CHANNEL CARRIER		TWELVE CHANNEL CARRIER		
		TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	
29) STGO. CUBA	PALMA SORIANO	FTR 9A1	2									
" "	" "	FTR 9H2	1									
30) "	SAN LUIS (0)	W.E. 12CH H-1	1									
31) "	" "	FTR 9F1	1									
32) "	V. TUNAS	FTR 9F1	1									
33) "	CAMAGUEY	W.E. H-1	1	FTR 9B1	3							
34) "	HOLGUIN	-	-	FTR 9B1	3							
35) "	MANZANILLO	-	-	FTR 9B1	3							
36) "	PALM DRONO	FM PAN H.	4									
37) "	GIGARA	W.E. H-1	1									
38) "	ANTILLA	-	-									
39) "	STA. CLARA											
40) STO. C. AKA	SAGUA GRANDE	FTR 9A1	1									
41) "	STL SPIRITU	FTR 9A1	2									
42) "	TRINIDAD	W.E. H-1	1									
43) "	" "	FTR 9H2	1									
44) "	CAIBARIEN	FM PAN H.	6									
45) "	PLACETAS	FM PAN H.	6									
46) "	CAMAGUAN	FTR 9F1	1									
47) "	CIENFUEGOS	FTR 9H2	1									
48) MATAZAS	JOVELLAINOS	FTR 9A1	1									
49) "	" "	FM PAN H.	1									
50) CIENFUEGOS	CROCES	FM PAN H	1									
51) "	RANCHUELO	FM PAN H	1									
52) "	MANGARAGUA	FM PAN H	2									
53) "	STO. DOMINGO	FTR 9H2	2									
54) HOLGUIN	PUERTO PADRE	FTR 9H2	1									
55) CIEGO AVILA	MORON	FTR 9A1	2									
" "	"	FM PAN H.	12									
56) CARMENAS	COLON	FTR 9H2	1									
57) "	VARADERO	FM PAN H	4									
58) STO. SPIRITU	PLACETAS	FM PAN H	2									
59) GUANTANAMO	BARACOA	FTR 9A1	1									
" "	"	FM PAN H.	1									
60) "	CAIMANERA											

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CARRIERS FACILITIES AS OF OCTOBER 4/1960

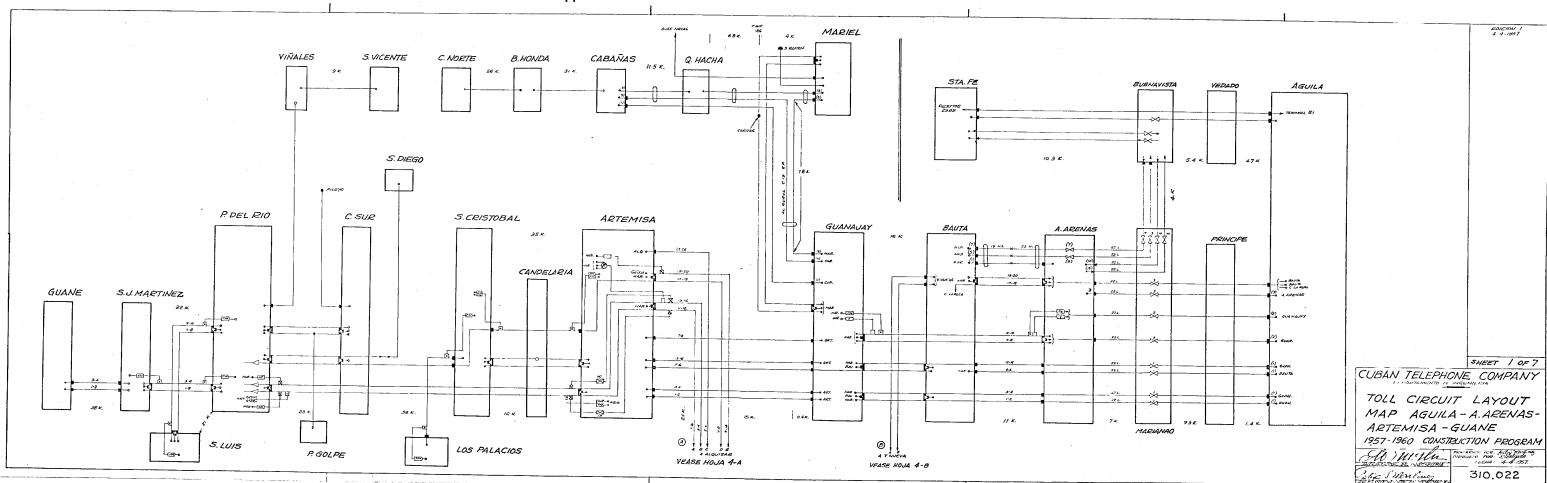
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FROM CENTRAL OFFICE	TO CENTRAL OFFICE	ONE CHANNEL CARRIER		THREE CHANNEL CARRIER		FOUR CHANNEL CARRIER		SEVEN CHANNEL CARRIER		TWELVE CHANNEL CARRIER		.
		TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	
78) ARTEMISA	STGO. VEGAS	FTR-9A1	1									
79) "	SANCRISTOBAL	FM PAN H.	2									
80) BAYAMO	MANZANILLO	FTR-9H2	1									
81) "	PALMASORIANO	FTR-9H2	1									
82) CAIBARIEN	PLACETAS	LYNCH B2B	3									
83) "	REMEDIOS	FM PAN H.	2									
84) "	YAGUAJAY	LYNCH B2B	2									
85) COLON	AGUADA P.	FTR-9H2	1									
86) "	COTORRO	W. ELECTRIC H-1	1									
87) PLACETAS, CAMAJUANI		FM PAN H.	3									
88) "	FOMENTO	FM PAN H.	2									
89) "	TRINIDAD	FM PAN H.	1									
90) "	YAGUAJAY	FM PAN H.	3									
91) S. ANTONIO B.	VEREDA NUEVA	FM PAN H.	6									
92) A. ARENAS	GUANAJAY	FTR-9H2	1									
93) COTORRO	SAN JOSE	FM PAN H.	3									
94) GUANAJAY	AGUILA	FM PAN H.	10									
95) SANCRISTOBAL	LOS PALACIOS	FM PAN H.	1									
96) IGUARÁ	YAGUAJAY	FM PAN H.	1									
97) MAYAKI	S. TANAMO	LYNCH B2B	2									
98) TRINIDAD	FOMENTO	FM PAN H.	1									
TOTALS FTR CHANNELS		35		33		—		—		—		
TOTALS W ELECTRIC CHANNELS		8		—		—		—		—		
TOTALS LYNCH CHANNELS		9		—		12		—		—		
TOTALS FM PANHANDLE CH.		91		—		—		—		—		
TOTALS R. ENG. PRODUCTS CH.		—		9		—		—		—		
TOTALS OTHERS CHANNELS		—		—		—		—		—		
TOTALS MIX & GENESYS CHANNELS		7		—		—		—		36		
GRAND TOTAL CHANNELS		143		48		12		7		180		F.E.

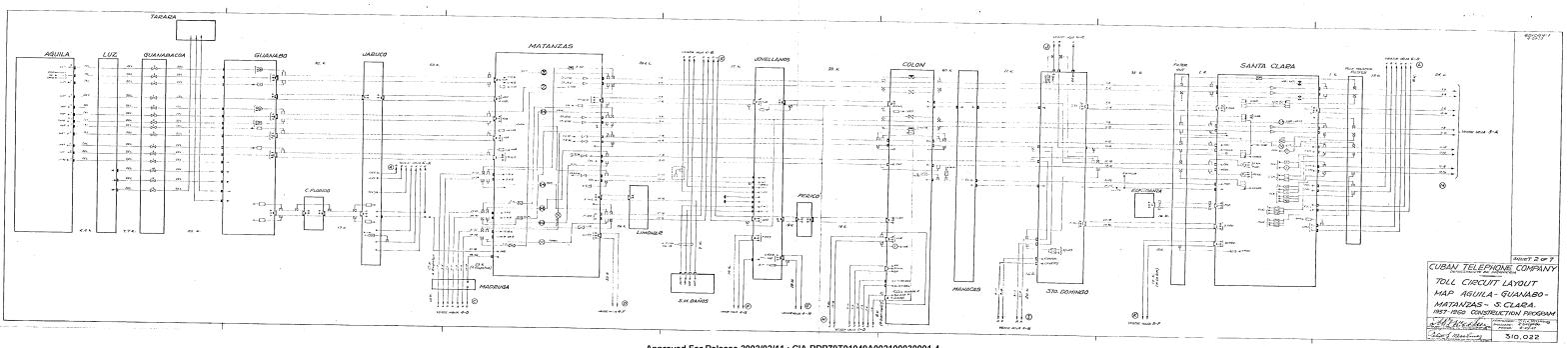
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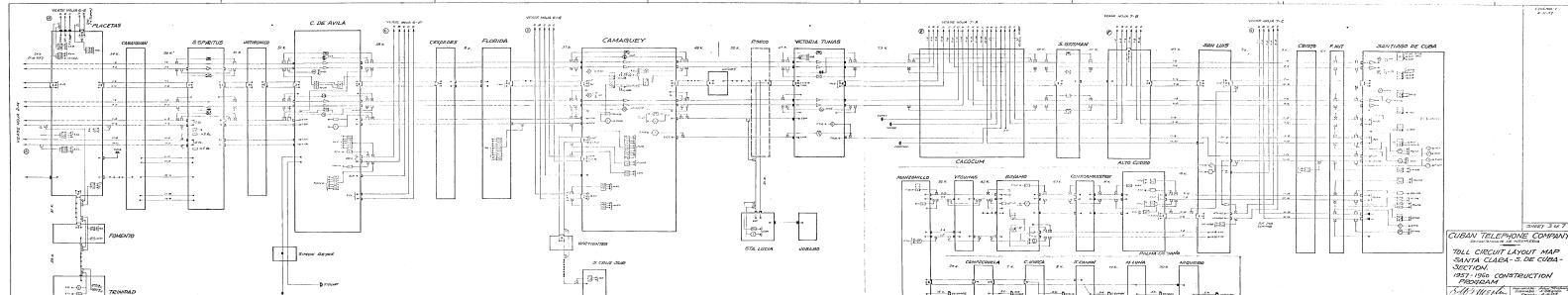
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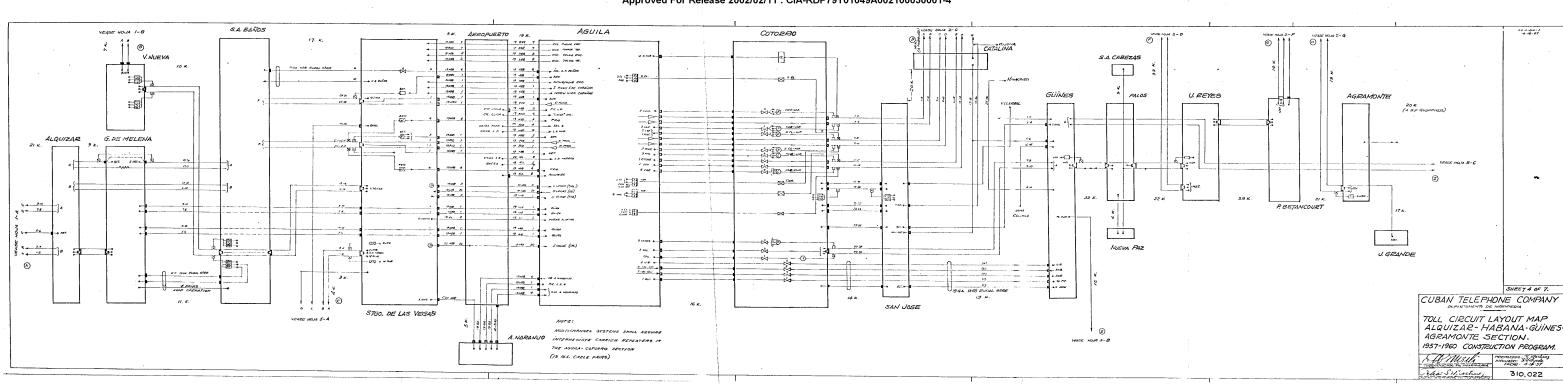
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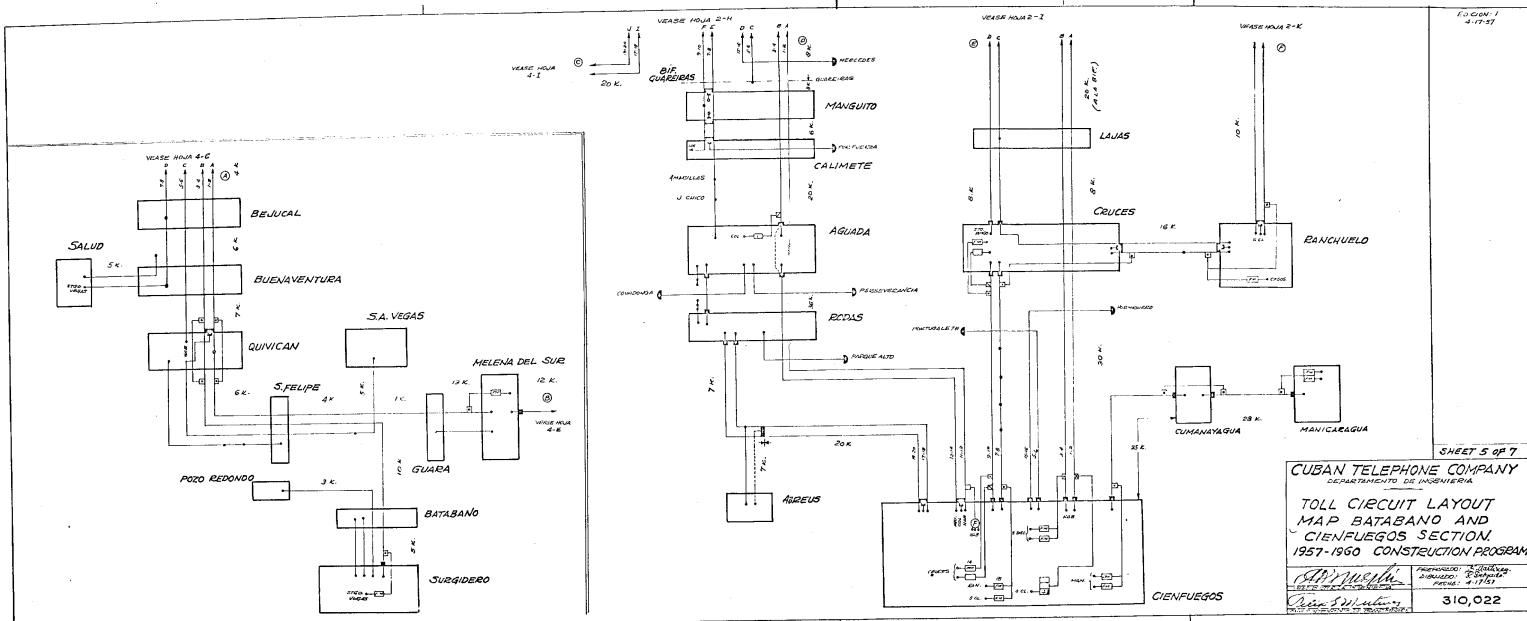


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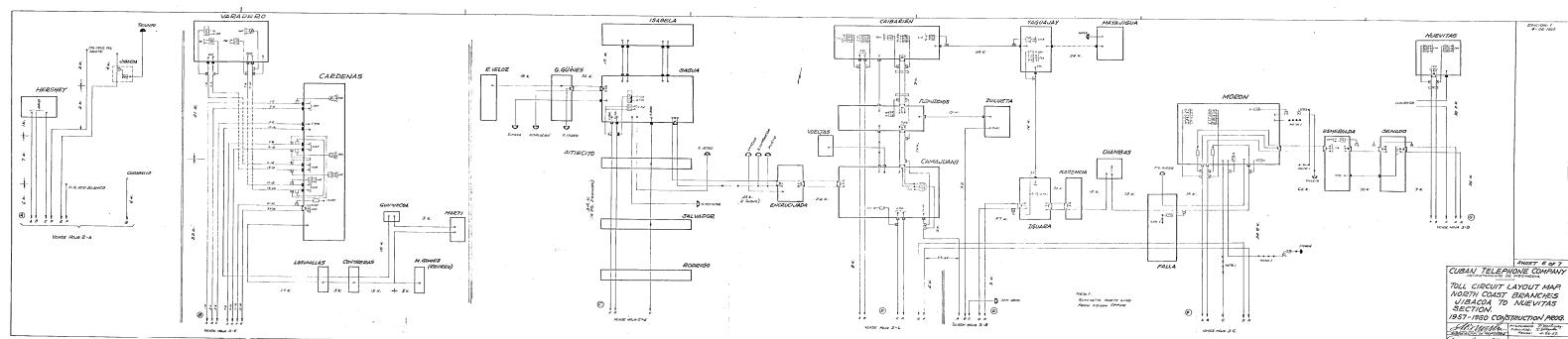
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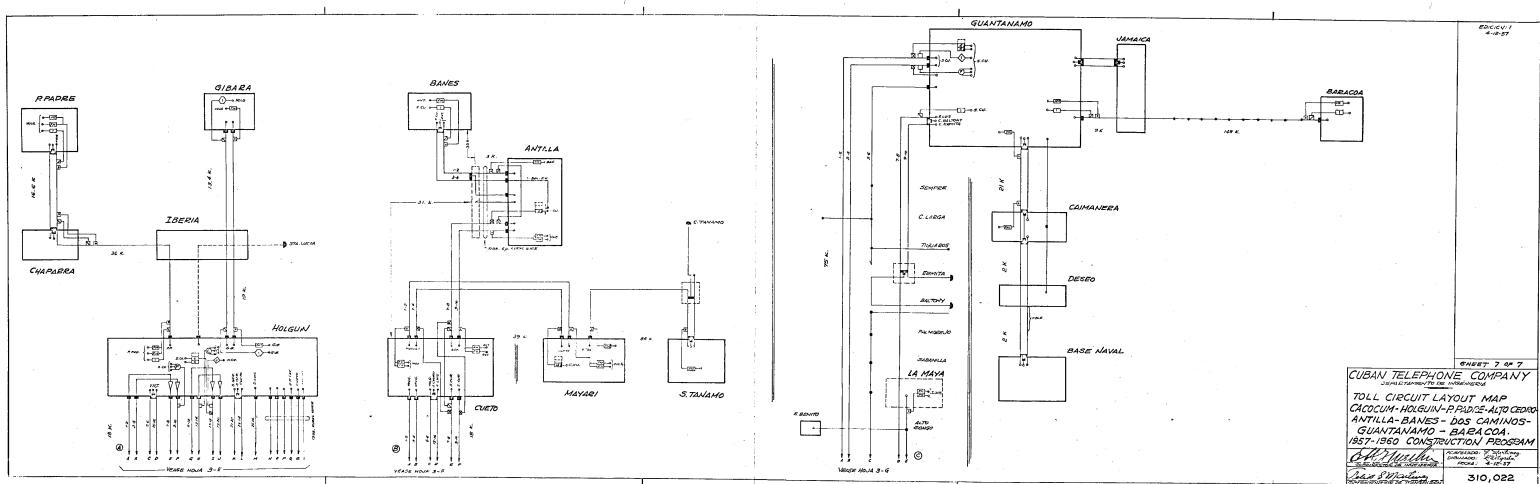


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